

Application No. 09/695,718
Supplemental Amendment
Dated February 17, 2004

VIA FACSIMILE TRANSMISSION - Official
To TC2800 - Fax Number 703-872-9306

In The Claims:

Please add claims 103-118 as shown beginning at page 12 hereof.

The following listing of claims will replace all prior versions of claims in the application.

Listing of Claims

Claims 1-59 (cancelled)

Claim 60 (previously presented): A device for reading information from first and second information tags associated with given goods, said device comprising:
an antenna;
a first processing circuit that generates first information from a first information tag associated with the given goods; and
a second processing circuit, coupled to the antenna, that communicates with a second information tag associated with the given goods, wherein the second information tag is of a different type than the first information tag, and the second processing circuit receives from the second information tag via the antenna more detailed second information more detailed than the first information, with respect to the given goods with which the second information tag is associated;
wherein the reader has a mode of operation where the reader first performs a read operation with respect to the second information tag via the antenna, and then performs a read operation with respect to the first information tag.

Claim 61 (previously presented): A device for reading information from first and second information tags associated with given goods, said device comprising:
an antenna;
a first processing circuit that generates first information from a first

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information tag associated with the given goods; and
a second processing circuit, coupled to the antenna, that communicates with a
second information tag associated with the given goods, wherein the
second information tag is of a different type than the first information tag,
and the second processing circuit receives from the second information
tag via the antenna more detailed second information more detailed than
the first information, with respect to the given goods with which the second
information tag is associated;
wherein the reader has a mode of operation where the reader concurrently
performs a read operation with respect to the second information tag via the
antenna, and a read operation with respect to the first information tag.

Claims 62 – 71 (cancelled)

**Claim 72 (previously presented): A system for providing information with respect
to goods, said system comprising**
first and second information tags associated with given goods,
a device for reading the first and second information tags, said device
comprising:
an antenna;
a first processing circuit that generates first information from the first information
tag associated with the given goods; and
a second processing circuit, coupled to the antenna, that communicates with the
second information tag associated with the given goods, wherein the
second information tag is of a different type than the first information tag,
and the second processing circuit receives from the second information
tag via the antenna less limited second information less limited than the
first information, with respect to the given goods with which the second
information tag is associated;

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wherein the reader has a mode of operation where the reader first performs a read operation with respect to the second information tag via the antenna, and then performs a read operation with respect to the first information tag.

Claim 73 (previously presented): A system for providing information with respect to goods, said system comprising

first and second information tags associated with given goods,
a device for reading the first and second information tags, said device comprising:

an antenna;

a first processing circuit that generates first information from the first information tag associated with the given goods; and

a second processing circuit, coupled to the antenna, that communicates with the second information tag associated with the given goods, wherein the second information tag is of a different type than the first information tag, and the second processing circuit receives from the second information tag via the antenna less limited second information less limited than the first information, with respect to the given goods with which the second information tag is associated;

wherein the reader has a mode of operation where the reader concurrently performs a read operation with respect to the second information tag via the antenna, and a read operation with respect to the first information tag.

Claims 74-75 (cancelled)

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Claim 76 (previously presented): A method of communicating between a reader device and a carrier unit, wherein the carrier unit includes a plurality of goods stored therewith, includes a first information tag disposed thereon, and includes a second information tag disposed thereon, wherein the second information tag is of a different type and operates in a different frequency spectrum than the first information tag, and wherein the reader device includes a first processing circuit for reading the first information tag, the method comprising the steps of:

reading the first information tag using the reader device operating in a first frequency spectrum to obtain communication control information which enables communication with the second information tag;

establishing communication between the reader device and the second information tag which operates in the different frequency spectrum based upon communication control information received from the reading of the first information tag; and

receiving at the reader device from the second information tag, status information corresponding to the carrier unit.

Claim 77 (previously presented): The method of claim 76, wherein the first information tag is an optical target, the second information tag is a radio (RF) tag, and the reader device reads the information from an image of the first information tag so as to receive communication control information which enables communication with the particular radio (RF) tag disposed on the carrier unit along with the first information tag, to the exclusion of other radio (RF) tags not associated with said carrier unit.

Claim 78 (previously presented): The method of claim 77, wherein the optical target is an optical bar code which contains the address to be used in addressing the radio (RF) tag disposed on said carrier unit.

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Claim 79 (previously presented): The method of claim 76, wherein the status information comprises an inventory of the plurality of goods stored with the carrier unit.

Claim 80 (previously presented): The method of claim 76, further comprising the steps of:

transmitting new status information from the reader unit to the second information tag; and

storing the status information on the second information tag.

Claim 81 (previously presented): The method of claim 76, further comprising the step of transmitting from the second information tag to the reader device at least one location detection signal for geographically locating the carrier unit.

Claim 82 (previously presented): The method of claim 76, further comprising the step of communicating with the second information tag via a base station which sends an interrogation signal addressed to the specific second information tag.

Claim 83 (previously presented): A device for reading information from first and second information tags associated with given goods, said device comprising:

an antenna;

a first processing circuit that generates first information from a first

information tag associated with the given goods, which enables communication with the second information tag; and

a second processing circuit, coupled to the antenna, that communicates with a second information tag associated with the given goods using the first information to establish communication, wherein the second information tag is of a different type than the first information tag, and the second processing circuit receives from the second information tag via the antenna more detailed second

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Information more detailed than the first information, with respect to the given goods with which the second information tag is associated.

Claim 84 (previously presented): The device of claim 83, wherein the device further comprises a selector that, depending upon a setting, individually enables or disables the first processing circuit and the second processing circuit.

Claim 85 (previously presented): The device of claim 83, wherein the second information tag has a mode of operation where the second information tag is enabled to be read, to the exclusion of other second information tags.

Claim 86 (previously presented): The device of claim 83, wherein the reader has a mode of operation where the reader performs a read operation addressed to said second information tag via the antenna, to produce a perceptible indication of the location of the given goods.

Claim 87 (previously presented): The device of a claim 83, wherein the second information tag stores a data set, which is associated with the goods with which the second information tag is associated, said data set being selected from the following group of data sets:

- a shelf-life of the goods;
- a current temperature of the goods;
- a preferred storage temperature of the goods;
- biological sensor data for the goods ;and
- pressure sensor data for the goods.

Claim 88 (previously presented): The device of claim 83, wherein the second information comprises identification data corresponding to the goods associated with the second information tag.

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Claim 89 (previously presented): The device of claim 83, wherein the second information comprises identification data corresponding to the goods associated with the second information tag, and the first information relates to a carrier for the goods.

Claim 90 (previously presented): The device of claim 83, wherein the second information comprises location data for the goods associated with the second information tag.

Claim 91 (previously presented): A system for providing information with respect to goods, said system comprising
first and second information tags associated with given goods,
a device for reading the first and second information tags, said device comprising;
an antenna;
a first processing circuit that generates from the first information tag associated with the given goods, first information which enables the device to read the second information tag; and
a second processing circuit, coupled to the antenna, that communicates with the second information tag associated with the given goods, wherein the second information tag is of a different type than the first information tag, and the second processing circuit receives from the second information tag via the antenna less limited second information less limited than the first information, with respect to the given goods with which the second information tag is associated.

Claim 92 (previously presented): The system of claim 91, wherein the device further comprises a selector that, depending upon a setting, individually enables or disables the first processing circuit and the second processing circuit.

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Claim 93 (previously presented): The system of claim 91, wherein the second information tag stores a plurality of data sets, each data set being associated with goods with which the second information tag is associated, said data sets being selected from the following group of data sets:

an inventory of the goods;

a shelf-life of the goods;

a current temperature of the goods;

a preferred storage temperature of the goods;

biological sensor data for the goods; and

pressure sensor data for the goods.

Claim 94 (previously presented): The system of claim 91, wherein the second information comprises identification data corresponding to the goods with which the second information tag is associated.

Claim 95 (previously presented): The system of claim 91, wherein the second information comprises identification data corresponding to the goods associated with the second information tag, and the first information relates to a carrier for the goods.

Claim 96 (previously presented): The system of claim 91, wherein the second information comprises location data for the goods associated with the second information tag.

Claim 97 (previously presented): The system of claim 91, wherein the reader has a mode of operation where the reader first performs a read operation with respect to the second information tag via the antenna, and then performs a read operation with respect to the first information tag.

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Claim 98 (previously presented): The system of claim 91, wherein the reader has a mode of operation where the reader concurrently performs a read operation with respect to the second information tag via the antenna, and a read operation with respect to the first information tag.

Claim 99 (previously presented): A device that reads a plurality of information tags, the device comprising:

an antenna;
a first processing circuit that generates first information from a first information tag; and

a second processing circuit, coupled to the antenna, that is enabled by the first information to communicate with a second information tag, wherein the second information tag is of different type than the first information tag, and stores more detailed information than the first information tag.

Claim 100 (previously presented): The device of claim 99, where the plurality of information tags are associated with given goods, and wherein the second information tag stores a plurality of data sets, said data sets being selected from the following group of data sets:

an inventory of the goods;
a shelf-life of the goods;
a current temperature of the goods;
a preferred storage temperature of the goods;
biological sensor data for the goods; and
pressure sensor data for the goods.

Claim 101 (previously presented): An identification system for goods stored by a carrier unit, comprising:

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a temporary carrier unit for storing articles of commerce;
a plurality of goods stored on the carrier unit;
a first information tag disposed on the carrier unit;
a second information tag disposed on the carrier unit, wherein the second information tag is of a different type than the first information tag; and a device that reads the first information tag and the second information tag, the device comprising:
an antenna;
a first processing circuit that generates information from the first information tag; and
a second processing circuit, coupled to the antenna, that is enabled by the information to communicate with the second information tag, the second information tag having relatively more detailed information in comparison to the first information tag.

Claim 102 (previously presented): The system of claim 101, wherein the second information tag stores a plurality of data sets, each data set being associated with the goods with which the second information tag is associated, said data sets being selected from the following group of data sets:
an inventory of the goods;
a shelf-life of the goods;
a current temperature of the goods;
a preferred storage temperature of the goods;
biological sensor data for the goods; and
pressure sensor data for the goods.

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Claim 103 (new): A method of communicating between a reader device, and a wireless communication device having an associated optical symbology containing communication control information which enables communication with the wireless communication device via the radio frequency spectrum, the method comprising the steps of:

reading the optical symbology using the reader device operating in an optical spectrum to obtain the communication control information; and
establishing communication via the radio frequency spectrum between the reader device and the wireless communication device based upon the communication enabling communication control information received from the reading of the optical symbology.

Claim 104 (new): The method of claim 103, wherein the communication control information from the optical symbology is used to enable addressing the wireless communication device via the radio frequency spectrum.

Claim 105 (new): The method of claim 103, wherein the wireless communication device is a radio (RF) tag, and the reader device reads the information from a particular optical symbology associated with a particular radio (RF) tag so as to receive communication control information which enables communication via the radio frequency spectrum with the particular radio (RF) tag to the exclusion of other radio (RF) tags not associated with the particular optical symbology .

Claim 106 (new): The method of claim 103, wherein the wireless communication device is a radio (RF) tag, and the reader device reads the information from a particular optical symbology associated with a particular radio (RF) tag so as to receive communication control information which enables communication via the radio frequency spectrum with the particular radio (RF) tag to the exclusion of

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other radio (RF) tags not associated with the particular optical symbology, the communication control information from the particular optical symbology enabling the addressing via the radio frequency spectrum of the particular radio (RF) tag to the exclusion of radio (RF) tags not associated with the particular optical symbology.

Claim 107 (new): A reader device for communication with a wireless communication device operating in the radio frequency spectrum, said reader device comprising

an optical reader for reading a symbology containing communication control information which enables communication via radio frequency transmission with the wireless communication device, and

a radio frequency transmitter for establishing communication with the wireless communication device via radio frequency transmission based on the communication enabling communication control information obtained by the optical reader.

Claim 108 (new): The reader device of claim 107, wherein the communication control information from the symbology is used to enable addressing the wireless communication device via the radio frequency transmission.

Claim 109 (new): The reader device of claim 107, wherein the wireless communication device is a radio (RF) tag, and the reader device reads the information from a particular symbology associated with a particular radio (RF) tag so as to receive communication control information which enables communication via the radio frequency transmission with the particular radio (RF) tag to the exclusion of other radio (RF) tags not associated with the particular symbology.

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Claim 110 (new): The reader device of claim 107, wherein the wireless communication device is a radio (RF) tag, and the reader device reads the information from a particular symbology associated with a particular radio (RF) tag so as to receive communication control information which enables communication via the radio frequency transmission with the particular radio (RF) tag to the exclusion of other radio (RF) tags not associated with the particular symbology, the communication control information from the particular symbology enabling the addressing via the radio frequency transmission of the particular radio (RF) tag to the exclusion of radio (RF) tags not associated with the particular symbology.

Claim 111 (new): A system comprising
a wireless communication device having an associated optical symbology containing communication control information which enables communication with the wireless communication device via the radio frequency spectrum;
a reader device having an optical reader for reading the optical symbology to obtain the communication enabling communication control information; and
the reader device establishing communication via the radio frequency spectrum with the wireless communication device based upon the communication enabling communication control information received from the reading of the optical symbology.

Claim 112 (new): The system of claim 111, wherein the communication control information from the optical symbology is used by the reader device to enable addressing the wireless communication device via the radio frequency spectrum.

Claim 113 (new): The system of claim 111, wherein the wireless communication device is a radio (RF) tag, and the reader device reads the information from a

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particular optical symbology associated with a particular radio (RF) tag so as to receive communication control information which enables communication via the radio frequency spectrum with the particular radio (RF) tag to the exclusion of other radio (RF) tags not associated with the particular optical symbology.

Claim 114 (new): The system of claim 111, wherein the wireless communication device is a radio (RF) tag, and the reader device reads the information from a particular optical symbology associated with a particular radio (RF) tag so as to receive communication control information which enables communication via the radio frequency spectrum with the particular radio (RF) tag to the exclusion of other radio (RF) tags not associated with the particular optical symbology, the communication control information from the particular optical symbology being used by the reader device for enabling the addressing via the radio frequency spectrum of the particular radio (RF) tag to the exclusion of other radio (RF) tags not associated with the particular optical symbology.

Claim 115 (new): A device for reading information from an optical information source and a wireless information source, said device comprising:
an antenna;
a first processing circuit that in a read operation receives information from the optical information source by the use of optical information transmission ;
and
a second processing circuit, coupled to the antenna, that in a read operation receives information via the antenna from the wireless information source by the use of radio frequency transmission;
wherein the reader has a mode of operation where the reader first performs a read operation with respect to the wireless information source via the antenna, and then performs a read operation with respect to the optical information source.

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Claim 116 (new): A device for reading information from an optical information source and a wireless information source, said device comprising:
an antenna;
a first processing circuit that in a read operation receives information from the optical information source by the use of optical information transmission ;
and
a second processing circuit, coupled to the antenna, that in a read operation receives information via the antenna from the wireless information source by the use of radio frequency transmission;
wherein the reader has a mode of operation where the reader concurrently performs a read operation with respect to the wireless information source via the antenna, and a read operation with respect to the optical information source.

Claim 117 (new): An information processing system comprising:
an optical information source that is read in an optical read operation;
a wireless information source that is read in a radio frequency read operation;
and
a device for reading information from the optical information source and from the wireless information source, said device comprising:
an antenna;
a first processing circuit that receives information from the optical information source by the use of optical information transmission ; and
a second processing circuit, coupled to the antenna, that communicates with the wireless information source, the second processing circuit receiving information via the antenna from the wireless information source by the use of radio frequency transmission;

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wherein the reader has a mode of operation where the reader first performs a radio frequency read operation with respect to the wireless information source via the antenna, and then performs an optical read operation with respect to the optical information source.

Claim 118 (new): An information processing system comprising:
an optical information source that is read in an optical read operation;
a wireless information source that is read in a radio frequency read operation;
and
a device for reading information from the optical information source and from the wireless information source, said device comprising:
an antenna;
a first processing circuit that receives information from the optical information source by the use of optical information transmission ; and
a second processing circuit, coupled to the antenna, that communicates with the wireless information source, the second processing circuit receiving information via the antenna from the wireless information source by the use of radio frequency transmission;
wherein the reader has a mode of operation where the reader concurrently performs a radio frequency read operation with respect to the wireless information source via the antenna, and an optical read operation with respect to the optical information source.